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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,323	10/07/2003	Masahiro Inoue	Q77822	2674
23373	7590 04/05/2006		EXAM	INER
	MION, PLLC	WEST, LEWIS G		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 20037	2618		
			DATE MAILED: 04/05/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No.	Applicant(s)
	10/679,323	INOUE, MASAHIRO
Office Action Summary	Examiner	Art Unit
	Lewis G. West	2682
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati  - If NO period for reply is specified above, the maximum statutory i  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MOI statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) ■ Responsive to communication(s) filed on 2a) ■ This action is <b>FINAL</b> . 2b) ■ 3) ■ Since this application is in condition for all closed in accordance with the practice units and the condition is in condition.	This action is non-final.  Ilowance except for formal mat	• •
Disposition of Claims		
4)  Claim(s) <u>1-6</u> is/are pending in the application 4a) Of the above claim(s) is/are wite 5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-6</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and application Papers	thdrawn from consideration.	
9)☐ The specification is objected to by the Exact 10)☑ The drawing(s) filed on <u>07 October 2003</u> is Applicant may not request that any objection to Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the	s/are: a)⊠ accepted or b)⊡ on the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents.</li> <li>2. Certified copies of the priority documents.</li> <li>3. Copies of the certified copies of the application from the International B</li> <li>* See the attached detailed Office action for an application.</li> </ul>	ments have been received. ments have been received in A e priority documents have beer ureau (PCT Rule 17.2(a)).	Application No  received in this National Stage
Attachment(s)  1)   Notice of References Cited (PTO-892)	4) ☐ Interview :	Summary (PTO-413)
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-94</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>1 page</u>.</li> </ul>	8) Paper No(	s)/Mail Date nformal Patent Application (PTO-152)

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Fisher (US 4,931,805).

Regarding claim 2, Fisher discloses a Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material comprising: an antenna (15) for communicating with roadside radio equipment (see col. 2 lines 10-13, cellular communications would involve communicating with a base station radio equipment, which could be roadside, and as the location of the equipment is merely an intended use and as no roadside equipment is positively claimed, the limitation is met by the art); a housing (outside engaging portion 13) in which only said antenna is housed (Col. 2 lines 35-47); and an adhesive material (in the context of this claim, both the silicon gel adhesive 34 and the double sided tape adhesive 32, or the combination of the two, read on this limitation) having a first surface affixed to said housing and a second surface for affixing to a vehicle window (Col. 2 lines 48-67), wherein: a protruding portion engaged with said adhesive material is disposed on said housing. (see Figure 4, wherein the silicon adhesive is engaged with a protruding portion of the device to be mounted by being applied to channel 30)

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (US 4,931,805) in view of Baratono (US 6,549,793).

Regarding claim 1, Fisher discloses a Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material comprising: an antenna (15) and a radio portion a data processing portion (cellular phone) for communicating with roadside radio equipment (see col. 2 lines 10-13, cellular communications would involve communicating with a base station radio equipment, which could be roadside, and as the location of the equipment is merely an intended use and as no roadside equipment is positively claimed, the limitation is met by the art) a housing (outside engaging portion 13) in which at least antenna is housed (Col. 2 lines 35-47); and an adhesive material (in the context of this claim, both the silicon gel adhesive 34 and the double sided tape adhesive 32, or the combination of the two, read on this limitation) having a first surface affixed to said housing and a second surface for affixing to a vehicle window (Col. 2 lines 48-67), wherein: a protruding portion engaged with said adhesive material is disposed on said housing. (see Figure 4, wherein the silicon adhesive and tape are engaged with a protruding portion of the device to be mounted by being applied to channel 30) but does not expressly disclose that the said radio portion, and said data processing portion may be mounted in the attached housing with the antenna.

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Baratono discloses an adhesive mounted on-board communication device including an antenna, a radio portion and a data processing portion for processing received data from the radio portion wherein the radio portion is mounted in the same housing with the antenna. (Col. 2 lines 50-55). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include the radio and processing portions in the mounted device, as is suggested in Baratono (Col. 4 lines 24-32) that all communications circuitry, may be included in the same housing or certain portions may be placed elsewhere in the vehicle. Therefore it would have been reasonable to use the advantages of either situation, while the structure in Fisher would provide for more possibilities in antenna placement, it would also have been apparent to one of ordinary skill in the art that combining all circuitry in one device would provide for easier manufacturing.

Regarding claim 3, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein: said protruding portion is fitted into an aperture formed on said adhesive material. (See Fisher, Figure 4, wherein the adhesive layer, which includes the silicon and tape, form an aperture within which a protruding portion of the housing resides)

Regarding claim 4, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein: a height of said protruding portion is less than a thickness of said adhesive material. (See Fisher, Figure 4, wherein the adhesive layer, which includes the silicon and tape, form an aperture within which a protruding portion of the housing resides, and this protruding portion is narrower in thickness than the height of the silicon gel adhesive)

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Regarding claim 5, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein: a leading end surface of said protruding portion is a flat surface. (See Figure 4 of Fisher, the portion of the protrusion adhered to the double sided tape is flat.)

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (US 4,931,805) in view of Baratono (US 6,549,793) and further in view of Wunderling (US 4,931,806).

Regarding claim 6, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, but does not address how antenna adjustments are made. Wunderling discloses a communication with an antenna in the adhesively mountable section wherein the antenna characteristics are matched by adjusting a shape of said antenna. (Col. 6 lines 5-17) Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to adjust the antenna characteristics by changing the shape, as the nature of antennas dictates that size and shape determine their characteristics, and by changing the shape to improve these characteristics may reduce loss and unwanted radiation at the device as well as improving the received signal. (See Wunderling col. 5 lines 12-17) and Wunderling further expresses that it incorporates the structure of the Fisher reference (see col. 3 lines 26-41)

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis G. West whose telephone number is 571-272-7859. The

examiner can normally be reached on Monday-Friday 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew D. Anderson can be reached on 571-272-4177. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lewis West

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